



0203.SEQUENCE LISTING
SEQUENCE LISTING

<110> KIM, Jong-Bae

<120> CRUDE EXTRACT FROM *Viscum album coloratum*, AND PROTEINS
AND LECTINS ISOLATED THEREFROM

<130> Korean Mistletoe Lectin

<140> 09/627,165

<141> 2000-07-27

<160> 80

<210> 1

<211> 762

<212> DNA

<213> *Viscum album coloratum*

<220>

<221> misc_feature

<400> 1

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cgtcagtcta cgatccccgt ctcgatgacg caaagatttg tggttggtgga actcaccaat 180
caggggggag actcgatcac ggccgccatc gacgttacta acctgtacgt ggtggcttac 240
caagcaggcg accaatccta ctttttgccg gacgcaccag acggcgcgga aaggcatctc 300
ttcaccggca ccaccagatc ctccctccca ttcaccggaa gctacacaga tctggagcga 360
ttcgccggtc atagggacca gatccctctg ggtagagagg aactcattca atccgtctcg 420
gcccttcgtt ttccgggcag caacactcgt gcccaagctc gttcctttat catcctcatt 480
cagatgatct ccgaggccgc cagattcaat cccatcttat ggagggctcg ccaatacatt 540
agcagtgggg ggtcatttct gccagacacg tacattctcc agctggagac gagttggggg 600
caacaatcca cgcaagttca gcactcgacg gatggcggtt ttaataaccc aattcggttg 660
actatatcca ctggtgtctt cgtgacgttg agcaatgttc gcgacgtgat cgccagctta 720
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<210> 2

<211> 254

<212> PRT

<213> *Viscum album coloratum*

<220>

<221> misc_feature

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TECH CENTER 1600/2900

0203.SEQUENCE LISTING

<400> 2

Tyr Glu Arg Leu Arg Leu Arg Val Thr His Gln Thr Thr Gly Asp Glu
 1 5 10 15

Tyr Phe Arg Phe Ile Thr Leu Leu Arg Asp Tyr Val Ser Ser Gly Ser
 20 25 30

Phe Ser Asn Glu Ile Pro Leu Leu Arg Gln Ser Thr Ile Pro Val Ser
 35 40 45

Asp Ala Gln Arg Phe Val Leu Val Glu Leu Thr Asn Gln Gly Gly Asp
 50 55 60

Ser Ile Thr Ala Ala Ile Asp Val Thr Asn Leu Tyr Val Val Ala Tyr
 65 70 75 80

Gln Ala Gly Asp Gln Ser Tyr Phe Leu Arg Asp Ala Pro Asp Gly Ala
 85 90 95

Glu Arg His Leu Phe Thr Gly Thr Thr Arg Ser Ser Leu Pro Phe Thr
 100 105 110

Gly Ser Tyr Thr Asp Leu Glu Arg Phe Ala Gly His Arg Asp Gln Ile
 115 120 125

Pro Leu Gly Arg Glu Glu Leu Ile Gln Ser Val Ser Ala Leu Arg Phe
 130 135 140

Pro Gly Ser Asn Thr Arg Ala Gln Ala Arg Ser Phe Ile Ile Leu Ile
 145 150 155 160

Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp Arg Ala
 165 170 175

Arg Gln Tyr Ile Ser Ser Gly Gly Ser Phe Leu Pro Asp Thr Tyr Ile
 180 185 190

Leu Gln Leu Glu Thr Ser Trp Gly Gln Gln Ser Thr Gln Val Gln His
 195 200 205

Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Thr Ile Ser Thr
 210 215 220

Gly Val Phe Val Thr Leu Ser Asn Val Arg Asp Val Ile Ala Ser Leu
 225 230 235 240

Ala Ile Met Leu Phe Val Cys Glu Asp Arg Pro Ser Ser Ser
 245 250

<210> 3

<211> 762

<212> DNA

<213> Viscum album coloratum

<220>

<400> 3

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atcacgcttc tccgagatca tgtctcaagc ggaagcttgt ccaatcaaata accactcttg 120

RECEIVED

MAR 06 2003

TECH CENTER 1600/2900

0203.SEQUENCE LISTING

cggcagtcta ctgtccccgt ctcggatacg cagagatttg tgttggtgga actcagcaat 180
 caggggggag actcgatcac ggccgccatc gacgttacca atctgtacgt ggtggccttac 240
 caagcaggca accaatccta ctttttgcg cgcgcacctc gcggcgcgga aacgtatctc 300
 ttcaccggca ccaccgatc ctctctccca ttcaacggaa gctaccctga tctggagcga 360
 tacgccggac atagggacca gatccctctc ggtatagacc aactcattca atccgtctcg 420
 gcccttcgtt ttccgggcag caacactcgt gcccaagctc gttcctttat catcctcatt 480
 cagatgatct ccgaggccgc cagattcaat cccatcttat ggagggctcg ccaatacatt 540
 agcagtgggg ggtcatttct gccagacacg tacattctcc agctggagac gagttggggg 600
 caacaatcca cgcaagtcca gcaactcgac gatggcggtt ttaataaccc aattcggttg 660
 actatatcca ctggtgtctt cgtgacgttg agcaatgttc gcgacgtgat cgccagcyta 720
 gcgatcatgt tgtttgtatg cgaggaccgg ccattcttct ct 762

<210> 4
 <211> 254
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature
 <222> 240
 <223> Xaa = any amino acid

<400> 4

Tyr Glu Arg Leu Arg Leu Arg Val Thr His Gln Thr Thr Gly Asp Gln
 1 5 10 15
 Tyr Phe Lys Phe Ile Thr Leu Leu Arg Asp His Val Ser Ser Gly Ser
 20 25 30
 Leu Ser Asn Gln Ile Pro Leu Leu Arg Gln Ser Thr Val Pro Val Ser
 35 40 45
 Asp Thr Gln Arg Phe Val Leu Val Glu Leu Ser Asn Gln Gly Gly Asp
 50 55 60
 Ser Ile Thr Ala Ala Ile Asp Val Thr Asn Leu Tyr Val Val Ala Tyr
 65 70 75 80
 Gln Ala Gly Asn Gln Ser Tyr Phe Leu Arg Asp Ala Pro Arg Gly Ala
 85 90 95
 Glu Thr Tyr Leu Phe Thr Gly Thr Thr Arg Ser Ser Leu Pro Phe Asn
 100 105 110
 Gly Ser Tyr Pro Asp Leu Glu Arg Tyr Ala Gly His Arg Asp Gln Ile
 115 120 125
 Pro Leu Gly Ile Asp Gln Leu Ile Gln Ser Val Ser Ala Leu Arg Phe
 130 135 140

0203.SEQUENCE LISTING

Pro Gly Ser Asn Thr Arg Ala Gln Ala Arg Ser Phe Ile Ile Leu Ile
145 150 155 160
Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp Arg Ala
165 170 175
Arg Gln Tyr Ile Ser Ser Gly Gly Ser Phe Leu Pro Asp Thr Tyr Ile
180 185 190
Leu Gln Leu Glu Thr Ser Trp Gly Gln Gln Ser Thr Gln Val Gln His
195 200 205
Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Thr Ile Ser Thr
210 215 220
Gly Val Phe Val Thr Leu Ser Asn Val Arg Asp Val Ile Ala Ser Xaa
225 230 235 240
Ala Ile Met Leu Phe Val Cys Glu Asp Arg Pro Ser Ser Ser
245 250

<210> 5
<211> 768
<212> DNA
<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 5

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cctccgtcaa tcccgggtctc ctctgcgcag agatttgtgt tgggtggaact cacaaatcag 180
ttgggaaagt gggaagactc gatcacggcc gccatcgacg ttaccaatct gtacgtggtg 240
gcttaccaag caggcgacca atcctacttt ttgcgcgacg caccagacgg cgcggaaagg 300
catctcttca ccggcaccac cagatcctct cttcctttca acggaagcta cgctgatctg 360
gagcggtagc ccggacatag ggaccggatc cctctgggta gagagccact catacgatcc 420
gtctcggcgc ttgattatcc cggcggcagc acgcgcgccc aagccagttc cattattatc 480
gtcattcaga tgatctccga ggcgccaga ttcaatccca tcctatggag ggctcgccaa 540
tacattaaca gtgggggtgtc atatcttcca gacgtgtaca tgctggagct ggaggcgagt 600
tggggccaac aatcgacca agtcagcag tcgaccgatg gcgtttttta taaccaatt 660
cggttgggta tatccaccgg caacttcgtg tggttgagca atgttcgcga cgtgatcgcc 720
agcttgggga tcatggtgtt tgtatgcagg gaccggtcat cttcccct 768

0203.SEQUENCE LISTING

<210> 6
 <211> 256
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 6

Tyr Glu Arg Leu Arg Leu Arg Val Thr His Gln Thr Thr Gly Asp Glu
 1 5 10 15

Tyr Phe Arg Phe Ile Lys Leu Leu Arg Asp Ser Val Ser Ser Gly Ser
 20 25 30

Phe Ser Asn Asp Ile Pro Leu Leu Pro Pro Ser Ile Pro Val Ser Ser
 35 40 45

Ala Gln Arg Phe Val Leu Val Glu Leu Thr Asn Gln Leu Gly Lys Trp
 50 55 60

Glu Asp Ser Ile Thr Ala Ala Ile Asp Val Thr Asn Leu Tyr Val Val
 65 70 75 80

Ala Tyr Gln Ala Gly Asp Gln Ser Tyr Phe Leu Arg Asp Ala Pro Asp
 85 90 95

Gly Ala Glu Arg His Leu Phe Thr Gly Thr Thr Arg Ser Ser Leu Pro
 100 105 110

Phe Asn Gly Ser Tyr Ala Asp Leu Glu Arg Tyr Ala Gly His Arg Asp
 115 120 125

Arg Ile Pro Leu Gly Arg Glu Pro Leu Ile Arg Ser Val Ser Ala Leu
 130 135 140

Asp Tyr Pro Gly Gly Ser Thr Arg Ala Gln Ala Ser Ser Ile Ile Ile
 145 150 155 160

Val Ile Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp
 165 170 175

Arg Ala Arg Gln Tyr Ile Asn Ser Gly Val Ser Tyr Leu Pro Asp Val
 180 185 190

Tyr Met Leu Glu Leu Glu Ala Ser Trp Gly Gln Gln Ser Thr Gln Val
 195 200 205

Gln Gln Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Gly Ile
 210 215 220

Ser Thr Gly Asn Phe Val Trp Leu Ser Asn Val Arg Asp Val Ile Ala
 225 230 235 240

Ser Leu Gly Ile Met Val Phe Val Cys Arg Asp Arg Ser Ser Ser Pro
 245 250 255

<210> 7
 <211> 797
 <212> DNA
 <213> Viscum album coloratum

0203. SEQUENCE LISTING

<220>

<221> misc_feature

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agtccaactc cgatcagaat cagctgtgga cgatcagaag ggatggaacc attcgatcta 180
atggaagggtg cttgacgacc tatgggtata ctgcgggcag ctatataatg atctacgact 240
gtaatagagg ggggtgggac cttactactt ggcagataag gggcaatgga atcatcctta 300
atccaagatc catgatgggtg atcggaacac catccgggag ccgcggaacc cgtggcacta 360
cttttactct gcaaacactg gggtactcat taggacaggg ctggcttgcc agcaatgata 420
ccgctcctcg cgaggtaacc atatatgggt tccgcgatca ttgcatggaa actagtggag 480
ggaaagtgtg gggtgggact tgtgtgagtg gcaagcagaa ccaaagatgg gctttgtacg 540
gggatgggtc cattcgcccc aaaccttacc aagaccaatg cctcacctct caggagact 600
ccgtagatc cgtaatcaat ttatttagct gcaccgctgg atcgccaagg caacgatggg 660
tatttaccaa taaaggggcc attttgaatt taaagaatag gttggccatg gatgtggcgg 720
aatcaaatcc aagcctccgc cgaataatca tcttttcagt cactggaaat ccaaatacaa 780
tgtggcttcc cgtgcc 797

<210> 8

<211> 266

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 8

Asp Asp Val Thr Cys Thr Thr Ser Glu Pro Thr Val Arg Phe Val Gly
1 5 10 15
Arg Asn Gly Leu Cys Leu Asp Val Pro Glu Gly Asp Tyr His Asp Gly
20 25 30
Ser Arg Ile Gln Leu Trp Pro Cys Lys Ser Asn Ser Asp Gln Asn Gln
35 40 45
Leu Trp Thr Ile Arg Arg Asp Gly Thr Ile Arg Ser Asn Gly Arg Cys
50 55 60
Leu Thr Thr Tyr Gly Tyr Thr Ala Gly Ser Tyr Ile Met Ile Tyr Asp
65 70 75 80
Cys Asn Arg Gly Gly Trp Asp Leu Thr Thr Trp Gln Ile Arg Gly Asn

0203. SEQUENCE LISTING

85

90

95

Gly Ile Ile Leu Asn Pro Arg Ser Met Met Val Ile Gly Thr Pro Ser
100 105 110

Gly Ser Arg Gly Thr Arg Gly Thr Thr Phe Thr Leu Gln Thr Leu Gly
115 120 125

Tyr Ser Leu Gly Gln Gly Trp Leu Ala Ser Asn Asp Thr Ala Pro Arg
130 135 140

Glu Val Thr Ile Tyr Gly Phe Arg Asp His Cys Met Glu Thr Ser Gly
145 150 155 160

Gly Lys Val Trp Val Gly Thr Cys Val Ser Gly Lys Gln Asn Gln Arg
165 170 175

Trp Ala Leu Tyr Gly Asp Gly Ser Ile Arg Pro Lys Pro Tyr Gln Asp
180 185 190

Gln Cys Leu Thr Ser Gln Gly Asp Ser Val Arg Ser Val Ile Asn Leu
195 200 205

Phe Ser Cys Thr Ala Gly Ser Pro Arg Gln Arg Trp Val Phe Thr Asn
210 215 220

Lys Gly Ala Ile Leu Asn Leu Lys Asn Arg Leu Ala Met Asp Val Ala
225 230 235 240

Glu Ser Asn Pro Ser Leu Arg Arg Ile Ile Ile Phe Ser Val Thr Gly
245 250 255

Asn Pro Asn Gln Met Trp Leu Pro Val Pro
260 265

<210> 9

<211> 789

<212> DNA

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 9

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tgcgctgacg tccgaaatgg aaaattccac gatggaaatc cgatacagtt gtggccctgc 120
aagtccaaca ccgataggaa tcagctgtgg acgatcagaa gggatggaac cattcgatct 180
aatagcaagt gcttgaccac ctatggctat cgtgatggca tgtatgtaat gatctacaac 240
tgtaatacgg ccgtgcggga ggccactatt tggcaaatat gggaaaatgg aaccatcggt 300
aatccaagat ccagtctggt actgggagca gcatctggaa acagccgcac taggcttact 360
gtgcaaacac aggcttactc gttgggacag ggctggcttg ccagcaatga taccgcccct 420
cgcgaggtaa ccatatacgg attccgtgac ctttgcattg aagctaattg atcgagtgtg 480
tgggtggaga cttgtgtgag taacaagcag aacaaaaat gggctttgta cggggatggt 540

0203.SEQUENCE LISTING

tctatacgcc ccaaacaaaa ccgaaaccaa tgcctcacct gccagaaaga ctccgtttca 600
 accgtaatca atattgttag ctgcagcgca ggatcgtctg ggcagcgatg ggtgtttacc 660
 aataaaggga ccattttgaa tttaaagaat gggttgggtca tggatgtggc gcaatcaaat 720
 ccaagcctcc gccgaataat catctaccca gccaccggaa agcctaataa aatgtggcctt 780
 cccgtgccca 789

<210> 10
 <211> 263
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 10

Asp Asp Gly Thr Cys Thr Ala Ser Glu Pro Thr Val Arg Ile Val Gly
 1 5 10 15

Leu Asn Gly Leu Cys Val Asp Val Arg Asn Gly Lys Phe His Asp Gly
 20 25 30

Asn Pro Ile Gln Leu Trp Pro Cys Lys Ser Asn Thr Asp Arg Asn Gln
 35 40 45

Leu Trp Thr Ile Arg Arg Asp Gly Thr Ile Arg Ser Asn Ser Lys Cys
 50 55 60

Leu Thr Thr Tyr Gly Tyr Arg Asp Gly Met Tyr Val Met Ile Tyr Asn
 65 70 75 80

Cys Asn Thr Ala Val Arg Glu Ala Thr Ile Trp Gln Ile Trp Glu Asn
 85 90 95

Gly Thr Ile Val Asn Pro Arg Ser Ser Leu Val Leu Gly Ala Ala Ser
 100 105 110

Gly Asn Ser Arg Thr Arg Leu Thr Val Gln Thr Gln Ala Tyr Ser Leu
 115 120 125

Gly Gln Gly Trp Leu Ala Ser Asn Asp Thr Ala Pro Arg Glu Val Thr
 130 135 140

Ile Tyr Gly Phe Arg Asp Leu Cys Met Glu Ala Asn Gly Ser Ser Val
 145 150 155 160

Trp Val Glu Thr Cys Val Ser Asn Lys Gln Asn Gln Lys Trp Ala Leu
 165 170 175

Tyr Gly Asp Gly Ser Ile Arg Pro Lys Gln Asn Arg Asn Gln Cys Leu
 180 185 190

Thr Cys Gln Lys Asp Ser Val Ser Thr Val Ile Asn Ile Val Ser Cys
 195 200 205

0203. SEQUENCE LISTING

Ser Ala Gly Ser Ser Gly Gln Arg Trp Val Phe Thr Asn Lys Gly Thr
210 215 220

Ile Leu Asn Leu Lys Asn Gly Leu Val Met Asp Val Ala Gln Ser Asn
225 230 235 240

Pro Ser Leu Arg Arg Ile Ile Ile Tyr Pro Ala Thr Gly Lys Pro Asn
245 250 255

Gln Met Trp Leu Pro Val Pro
260

<210> 11

<211> 789

<212> DNA

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 11

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tgcgtcgacg tccgacatgg aaaattccac gatggaaatc cgatacagtt gtggccctgc 120
aagtccaaca ccgataggaa tcagctgtgg acgatcagaa gggatggaac cattcgatct 180
aatagcaagt gcttgaccac ctatggctat cgtgatggca tgtatgtcat gatctacaac 240
tgtaatacgg ccgtgcggga ggccactatt tggcaaatat gggaaaatgg aaccatcggt 300
aatccaaaat ccagtctggt actgggagca gcatctggaa gcagccgcac tacgcttact 360
gtgcaaacac aggcttactc gttgggacag ggctggcttg ccagccatga tacagcccct 420
cgcgaggtaa ccatatacgg tttccgtgac ctttgcattg aagctaattg atcgagtgtg 480
tkggtggaga cttgtgtgag tcacaagcag aaccaaataat gggctttgta cggggatggt 540
tctatacgcc ccaaacaaaa ccgaaaccaa tgcctcacct gccagaaaga ctccgtttca 600
accgtaatca atattgtag ctgcagcgca ggatcgtctg ggcagcgatg ggtgtttacc 660
aataaaggga ccattttgaa tttaaagaat gggttggtcc tggatgtggc gcaatcaaat 720
ccaagcctcc gccgaataat catctacca gccaccggaa agcctaataa aatgtggcctt 780
cccgtgcc 789

<210> 12

<211> 263

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<222> 161

<223> Xaa = any amino acid

0203.SEQUENCE LISTING

<400> 12

Asp Asp Gly Thr Cys Thr Pro Ser Glu Pro Thr Val Trp Ile Val Gly
 1 5 10 15
 Leu Asn Gly Leu Cys Val Asp Val Arg His Gly Lys Phe His Asp Gly
 20 25 30
 Asn Pro Ile Gln Leu Trp Pro Cys Lys Ser Asn Thr Asp Arg Asn Gln
 35 40 45
 Leu Trp Thr Ile Arg Arg Asp Gly Thr Ile Arg Ser Asn Ser Lys Cys
 50 55 60
 Leu Thr Thr Tyr Gly Tyr Arg Asp Gly Met Tyr Val Met Ile Tyr Asn
 65 70 75 80
 Cys Asn Thr Ala Val Arg Glu Ala Thr Ile Trp Gln Ile Trp Glu Asn
 85 90 95
 Gly Thr Ile Val Asn Pro Lys Ser Ser Leu Val Leu Gly Ala Ala Ser
 100 105 110
 Gly Ser Ser Arg Thr Thr Leu Thr Val Gln Thr Gln Ala Tyr Ser Leu
 115 120 125
 Gly Gln Gly Trp Leu Ala Ser His Asp Thr Ala Pro Arg Glu Val Thr
 130 135 140
 Ile Tyr Gly Phe Arg Asp Leu Cys Met Glu Ala Asn Gly Ser Ser Val
 145 150 155 160
 Xaa Val Glu Thr Cys Val Ser His Lys Gln Asn Gln Lys Trp Ala Leu
 165 170 175
 Tyr Gly Asp Gly Ser Ile Arg Pro Lys Gln Asn Arg Asn Gln Cys Leu
 180 185 190
 Thr Cys Gln Lys Asp Ser Val Ser Thr Val Ile Asn Ile Val Ser Cys
 195 200 205
 Ser Ala Gly Ser Ser Gly Gln Arg Trp Val Phe Thr Asn Lys Gly Thr
 210 215 220
 Ile Leu Asn Leu Lys Asn Gly Leu Val Leu Asp Val Ala Gln Ser Asn
 225 230 235 240
 Pro Ser Leu Arg Arg Ile Ile Ile Tyr Pro Ala Thr Gly Lys Pro Asn
 245 250 255
 Gln Met Trp Leu Pro Val Pro
 260

<210> 13

<211> 357

<212> DNA

<213> Viscum album coloratum

<220>

<221> misc_feature

<222> 19, 57, 190, 331

<223> "n" = any single nucleotide

0203.SEQUENCE LISTING

<400> 13

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cagcagtcca aggatggcat ttttaatacc caaataagat tgcagatttc cgccggtaac 180
tttgtgacgn tgagcaatgt tcgcgacgtg atctccagct tggcgatcat gttgttcgaa 240
tgcagtggtc ggccattctc ctctctcgac cacccttcgc cgctgctcct aaggtccgtc 300
gtggatgcgg ccaacgatgt cacctgcact ntttccgaac ccaccgtgcg catcgta 357

<210> 14

<211> 119

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<222> 7, 64, 111

<223> Xaa = any amino acid

<400> 14

Ala Arg Phe Asn Pro Ile Xaa Trp Arg Leu Arg Arg Gln Ile Asn Ser
1 5 10 15
Gly Glu Ser Ser Pro Pro Asn Met Tyr Met Leu Glu Leu Glu Thr Ser
20 25 30
Trp Gly Arg Gln Ser Thr Gln Val Gln Gln Ser Lys Asp Gly Ile Phe
35 40 45
Asn Thr Gln Ile Arg Leu Gln Ile Ser Ala Gly Asn Phe Val Thr Xaa
50 55 60
Ser Asn Val Arg Asp Val Ile Ser Ser Leu Ala Ile Met Leu Phe Glu
65 70 75 80
Cys Ser Gly Arg Pro Phe Ser Ser Leu Asp His Pro Ser Pro Leu Leu
85 90 95
Leu Arg Ser Val Val Asp Ala Ala Asn Asp Val Thr Cys Thr Xaa Ser
100 105 110
Glu Pro Thr Val Arg Ile Val
115

<210> 15

<211> 837

<212> DNA

<213> Viscum album coloratum

<400> 15

catcagacga cgggcgacga atatttccgg ttcattcacgc ttctccgaga ttatgtctca 60

0203.SEQUENCE LISTING

agcgggaagct tttccaatga gataccactc ttgcgtcagt ctacgatccc cgtctcggat 120
 gcgcaaagat ttgtgttggt ggaactcacc aatcaggggg gagactcgat cacggccgcc 180
 atcgacgtta ccaatctgta cgtgggtggct taccaagcag gcgaccaatc ctactttttg 240
 cgcgacgcac cagacggcgc ggaaaggcat ctcttcaccg gcaccaccag atcctctctc 300
 ccattcaccg gaagctacac agatctggag cgatacgccg gtcataggga ccagatccct 360
 ctgggtatag aggaactcat tcaatccgtc tcggcgcttc gttatccagg cggcagcacc 420
 cgggcccag ctcgttccct tataatcctc attcagatga tctccgaggc cgcgagattc 480
 aatcccatct tttggagggc tcgccaatac attaacagcg gggagtcatt tcttcccgcac 540
 atgtacatgc tcgagctgga gactagttgg ggccaacaat ccacgcaagt ccagcagtct 600
 acggatggcg tttttaataa cccatttcgg ttgggtatat ccaccggtaa cttcgtgacg 660
 ttgagcaatg ttcgcgacgt gatcgccagc ttagcgatca tgttgtttgt atgtagggac 720
 cgaccatctt cctccgacgt gcgctattgg ccgctggtca tacgaccgt cttgaaaaat 780
 agcggcgccg tcgacgatgt tacctgcact gcttccgaac ccaccgtgcg catcgta 837

<210> 16
 <211> 279
 <212> PRT
 <213> Viscum album coloratum

<400> 16

His Gln Thr Thr Gly Asp | Glu Tyr Phe Arg Phe Ile Thr Leu Leu Arg
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Asp Tyr Val Ser Ser Gly Ser Phe Ser Asn Glu Ile Pro Leu Leu Arg
 20 25 30

Gln Ser Thr Ile Pro Val Ser Asp Ala Gln Arg Phe Val Leu Val Glu
 35 40 45

Leu Thr Asn Gln Gly Gly Asp Ser Ile Thr Ala Ala Ile Asp Val Thr
 50 55 60

Asn Leu Tyr Val Val Ala Tyr Gln Ala Gly Asp Gln Ser Tyr Phe Leu
 65 70 75 80

Arg Asp Ala Pro Asp Gly Ala Glu Arg His Leu Phe Thr Gly Thr Thr
 85 90 95

Arg Ser Ser Leu Pro Phe Thr Gly Ser Tyr Thr Asp Leu Glu Arg Tyr
 100 105 110

Ala Gly His Arg Asp Gln Ile Pro Leu Gly Ile Glu Glu Leu Ile Gln
 Page 12

115 0203. SEQUENCE LISTING 120 125

Ser Val Ser Ala Leu Arg Tyr Pro Gly Gly Ser Thr Arg Ala Gln Ala
130 135 140

Arg Ser Leu Ile Ile Leu Ile Gln Met Ile Ser Glu Ala Ala Arg Phe
145 150 155 160

Asn Pro Ile Phe Trp Arg Ala Arg Gln Tyr Ile Asn Ser Gly Glu Ser
165 170 175

Phe Leu Pro Asp Met Tyr Met Leu Glu Leu Glu Thr Ser Trp Gly Gln
180 185 190

Gln Ser Thr Gln Val Gln Gln Ser Thr Asp Gly Val Phe Asn Asn Pro
195 200 205

Phe Arg Leu Gly Ile Ser Thr Gly Asn Phe Val Thr Leu Ser Asn Val
210 215 220

Arg Asp Val Ile Ala Ser Leu Ala Ile Met Leu Phe Val Cys Arg Asp
225 230 235 240

Arg Pro Ser Ser Ser Asp Val Arg Tyr Trp Pro Leu Val Ile Arg Pro
245 250 255

Val Leu Glu Asn Ser Gly Ala Val Asp Asp Val Thr Cys Thr Ala Ser
260 265 270

Glu Pro Thr Val Arg Ile Val
275

<210> 17
<211> 18
<212> DNA
<213> Viscum album coloratum

<220>

<221> misc_feature
<222> 3, 6, 12, 16
<223> n = inosine

<400> 17

gtnacncatc anaacngg 18

<210> 18
<211> 19
<212> DNA
<213> Viscum album coloratum

0203. SEQUENCE LISTING

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<222> 3, 6, 13, 16

<223> n = inosine

<400> 18

acnatncgca cngtnggtc 19

<210> 19

<211> 29

<212> PRT

<213> Viscum album coloratum

<220>

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<400> 19

Tyr Glu Arg Glu Lys Leu Arg Val Thr His Gln Thr Thr Gly Asp Gln
1 5 10 15

Tyr Phe Lys Phe Ile Thr Leu Leu Ala Asp Gln His Ser
20 25

<210> 20

<211> 28

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 20

Tyr Glu Arg Glu Lys Leu Arg Val Thr His Gln Thr Thr Gly Asp Glu
1 5 10 15

Tyr Phe Arg Phe Ile Thr Leu Leu Ala Asp Thr Val
20 25

<210> 21

<211> 30

<212> PRT

<213> Viscum album loranthacea

<220>

<221> misc_feature

<400> 21

Tyr Glu Arg Glu Lys Leu Arg Val Thr His Gln Thr Thr Gly Asp Glu
1 5 10 15

Tyr Phe Arg Phe Ile Thr Leu Leu Ala Asp Thr Val Ser Ser
20 25 30

<210> 22

0203.SEQUENCE LISTING

<211> 13
<212> PRT
<213> Viscum album coloratum

<220>

<221> misc_feature
<222> 4
<223> Xaa = any amino acid

<400> 22
Asp Val Thr Xaa Thr Ala Ser Glu Pro Thr Val Arg Ile
1 5 10

<210> 23
<211> 20
<212> PRT
<213> Viscum album loranthacea

<220>

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<400> 23
Asp Asp Val Thr Ser Ser Ala Ser Glu Pro Thr Val Arg Ile Val Gly
1 5 10 15

Arg Asn Gly Met
20

<210> 24
<211> 10
<212> PRT
<213> Viscum album coloratum

<220>

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<400> 24
Tyr Glu Arg Leu Lys Leu Tyr Val Thr His
1 5 10

<210> 25
<211> 28
<212> PRT
<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 25
Tyr Glu Arg Leu Arg Leu Arg Val Thr His Gln Thr Thr Gly Asp Glu
1 5 10 15

Tyr Phe Arg Phe Ile Thr Leu Leu Arg Asp Tyr Val
20 25

0203.SEQUENCE LISTING

<210> 26
 <211> 17
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 26

His Gln Thr Thr Gly Asp Glu Tyr Phe Arg Phe Ile Thr Leu Leu Arg
 1 5 10 15

Asp

<210> 27
 <211> 26
 <212> PRT EMLA
 <213> Viscum album loranthacea

<220>

<221> misc_feature

<400> 27

Tyr Glu Arg Leu Lys Leu Tyr Val Thr His Gln Thr Thr Gly Glu Glu
 1 5 10 15

Tyr Phe Arg Phe Ile Thr Leu Leu Arg Asp
 20 25

<210> 28
 <211> 30
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 28

Ile Phe Pro Lys Gln Tyr Pro Ile Ile Asn Phe Thr Thr Ala Gly Ala
 1 5 10 15

Thr Val Gln Ser Tyr Thr Asn Phe Ile Arg Ala Val Arg Gly
 20 25 30

<210> 29
 <211> 26
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

0203.SEQUENCE LISTING

<400> 29

Glu Asp Arg Pro Ile Lys Phe Ser Arg Glu Gly Ala Thr Ser Gln Ser
1 5 10 15

Tyr Lys Gln Phe Ile Glu Ala Leu Arg Glu

<210> 30

<211> 2

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 30

Tyr Val
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<210> 31

<211> 29

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 31

Tyr Val Ser Ser Gly Ser Phe Ser Asn Glu Ile Pro Leu Leu Arg Gln
1 5 10 15

Ser Thr Ile Pro Val Ser Asp Ala Gln Arg Phe Val Leu
20 25

<210> 32

<211> 29

<212> PRT

<213> Viscum album loranthacea

<220>

<221> misc_feature

<400> 32

Tyr Val Ser Ser Gly Ser Pro Ser Asn Glu Ile Pro Leu Leu Arg Gln
1 5 10 15

Ser Thr Ile Pro Val Ser Asp Ala Gln Arg Phe Val Leu
20 25

0203.SEQUENCE LISTING

<210> 33
 <211> 29
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 33

Arg Leu Thr Thr Gly Ala Asp Val Arg His Glu Ile Pro Val Leu Pro
 1 5 10 15
 Asn Arg Val Gly Leu Pro Ile Asn Gln Arg Phe Ile Leu
 20 25

<210> 34
 <211> 27
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 34

Arg Leu Arg Gly Gly Leu Ile His Asp Ile Pro Val Leu Pro Asp Pro
 1 5 10 15
 Thr Thr Leu Gln Glu Arg Leu Arg Tyr Ile Thr
 20 25

<210> 35
 <211> 29
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 35

Val Glu Leu Thr Asn Gln Gly Gly Asp Ser Ile Thr Ala Ala Ile Asp
 1 5 10 15
 Val Thr Asn Leu Tyr Val Val Ala Tyr Gln Ala Gly Asp
 20 25

<210> 36
 <211> 29
 <212> PRT
 <213> Viscum album loranthacea

<220>

0203.SEQUENCE LISTING

<221> misc_feature

<400> 36

Val Glu Leu Thr Asn Gln Gly Gln Asp Ser Val Thr Thr Ala Ile Asp
1 5 10 15
Val Thr Asn Ala Tyr Val Val Ala Tyr Gln Ala Gly Asp
20 25

<210> 37

<211> 29

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 37

Val Glu Leu Ser Asn His Ala Glu Leu Ser Val Thr Leu Ala Leu Asp
1 5 10 15
Val Thr Asn Ala Tyr Val Val Gly Tyr Arg Ala Gly Asn
20 25

<210> 38

<211> 29

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 38

Val Glu Leu Ser Asn Ser Asp Thr Glu Ser Ile Glu Val Gly Ile Asp
1 5 10 15
Val Thr Asn Ala Tyr Val Val Ala Tyr Arg Ala Gly Thr
20 25

<210> 39

<211> 22

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 39

Gln Ser Tyr Phe Leu Arg Asp Ala Pro Asp Gly Ala Glu Arg His Leu
1 5 10 15
Phe Thr Gly Thr Thr Arg
20

0203.SEQUENCE LISTING

<210> 40
 <211> 22
 <212> PRT
 <213> Viscum album loranthacea

<220>

<221> misc_feature

<400> 40
 Gln Ser Tyr Phe Leu Arg Asp Ala Pro Arg Gly Ala Glu Thr His Leu
 1 5 10 15
 Phe Thr Gly Thr Thr Arg
 20

<210> 41
 <211> 26
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 41
 Ser Ala Tyr Phe Phe His Pro Asp Asn Gln Glu Asp Ala Glu Ala Ile
 1 5 10 15
 Thr His Leu Phe Thr Asp Val Gln Asn Arg
 20 25

<210> 42
 <211> 23
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 42
 Gln Ser Tyr Phe Leu Arg Asp Ala Pro Ser Ser Ala Ser Asp Tyr Leu
 1 5 10 15
 Phe Thr Gly Thr Asp Gln His
 20

<210> 43
 <211> 25
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 43
 Ser Ser Leu Pro Phe Asn Gly Ser Tyr Pro Asp Leu Glu Arg Tyr Ala
 1 5 10 15

Gly His Arg Asp Gln Ile Pro Leu Gly 0203. SEQUENCE LISTING
 20 25

<210> 44
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 <212> PRT
 <213> Viscum album loranthacea

<220>

<221> misc_feature

<400> 44
 Ser Ser Leu Pro Phe Asn Gly Ser Tyr Pro Asp Leu Glu Arg Tyr Ala
 1 5 10 15
 Gly His Arg Asp Gln Ile Pro Leu Gly
 20 25

<210> 45
 <211> 28
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 45
 Tyr Phe Thr Ala Phe Gly Gly Asn Tyr Asp Arg Leu Glu Gln Leu Ala
 1 5 10 15
 Gly Asn Leu Arg Glu Asn Ile Glu Leu Gly Asn Gly
 20 25

<210> 46
 <211> 27
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 46
 Ser Leu Pro Phe Tyr Gly Thr Tyr Gly Asp Leu Glu Arg Trp Ala His
 1 5 10 15
 Gln Ser Arg Gln Gln Ile Pro Leu Gly Leu Asp
 20 25

<210> 47
 <211> 24
 <212> PRT
 <213> Viscum album coloratum

<220>

0203.SEQUENCE LISTING

<221> misc_feature

<400> 47

Ile Glu Glu Leu Ile Gln Ser Val Ser Ala Leu Ile Tyr Pro Gly Gly
 1 5 10 15

Ser Thr Arg Ala Gln Ala Arg Ser
 20

<210> 48

<211> 24

<212> PRT

<213> Viscum album loranthacea

<220>

<221> misc_feature

<400> 48

Ile Arg Gln Leu Ile Gln Ser Val Thr Ala Leu Ile Phe Pro Gly Gly
 1 5 10 15

Ser Thr Arg Thr Gln Ala Arg Ser
 20

<210> 49

<211> 25

<212> PRT

<213> Ricin toxin

<220>

<221> misc_feature

<400> 49

Pro Leu Glu Glu Ala Ile Ser Ala Leu Tyr Tyr Tyr Ser Tyr Gly Gly
 1 5 10 15

Thr Gln Leu Pro Thr Leu Ala Arg Ser
 20 25

<210> 50

<211> 22

<212> PRT

<213> Arbin

<220>

<221> misc_feature

<400> 50

Ala Leu Thr His Gly Thr Ser Phe Phe Arg Ser Gly Gly Asn Arg Asn
 1 5 10 15

Glu Glu Lys Ala Arg Thr
 20

<210> 51

<211> 19

0203.SEQUENCE LISTING

<212> PRT
<213> Viscum album coloratum

<220>

<221> misc_feature
<222> 7
<223> Xaa = any amino acid

<400> 51

Ala Arg Phe Asn Pro Ile Xaa Trp Arg Leu Arg Arg Gln Ile Asn Ser
1 5 10 15

Gly Glu Ser

<210> 52
<211> 30
<212> PRT
<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 52

Leu Ile Ile Leu Ile Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro
1 5 10 15

Ile Phe Trp Arg Ala Arg Gln Tyr Ile Asn Ser Gly Glu Ser
20 25 30

<210> 53
<211> 30
<212> PRT
<213> Viscum album loranthacea

<220>

<221> misc_feature

<400> 53

Ile Leu Ile Leu Ile Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro
1 5 10 15

Ile Leu Trp Arg Tyr Arg Gln Tyr Ile Asn Ser Gly Ala Ser
20 25 30

<210> 54
<211> 30
<212> PRT
<213> Risin toxin

<220>

<221> misc_feature

<400> 54

PHE ILE ILE CYS ILE GLN MET ILE SER GLU ALA ALA ARG PHE GLN
5 10 15

0203.SEQUENCE LISTING

TYR ILE GLU GLY GLU MET ARG THR ARG ILE ARG TYR ASN ARG ARG
 20 25 30

<210> 55
 <211> 30
 <212> PRT
 <213> Abrin

<220>

<221> misc_feature

<400> 55
 LEU ILE VAL ILE ILE GLN MET VAL ALA GLU ALA ALA ARG PHE ARG
 5 10 15
 TYR ILE SER ASN ARG VAL ARG VAL SER ILE GLN THR GLY THR ALA
 20 25 30

<210> 56
 <211> 29
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 56
 SER SER PRO PRO ASN TYR MET LEU GLU LEU GLU THR SER TRP GLY
 5 10 15
 ARG GLN SER THR GLN VAL GLN GLN SER LYS ASP GLY ILE PHE
 20 25

<210> 57
 <211> 29
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 57
 PHE LEU PRO ASP MET TYR MET LEU GLU LEU GLU THR SER TRP GLY
 5 10 15
 GLN GLN SER THR GLN VAL GLN GLN SER THR ASP GLY VAL PHE
 20 25

<210> 58
 <211> 29
 <212> PRT
 <213> Viscum album loranthea

<220>

<221> misc_feature

<400> 58
 PHE LEU PRO ASP VAL TYR MET LEU GLU LEU GLU THR SER TRP GLY
 5 10 15
 GLN GLN SER THR GLN VAL GLN HIS SER THR ASP GLY VAL PHE
 20 25

0203.SEQUENCE LISTING

<210> 59
 <211> 29
 <212> PRT
 <213> Risin toxin

<220>

<221> misc_feature

<400> 59
 SER ALA PRO ASP PRO SER VAL ILE THR LEU GLU ASN SER TRP GLY
 5 10 15
 ARG LEU SER THR ALA ILE GLN GLU SER ASN GLN GLY ALA PHE
 20 25

<210> 60
 <211> 29
 <212> PRT
 <213> Arbin

<220>

<221> misc_feature

<400> 60
 PHE GLN PRO ASP ALA ALA MET ILE SER LEU GLU ASN MET TRP ASP
 5 10 15
 ASN LEU SER ARG GLY VAL GLN GLU SER VAL GLN ASP THR PHE
 20 25

<210> 61
 <211> 24
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature
 <222> 17
 <223> Xaa = any amino acid

<400> 61
 ASN THR GLN ILE ARG LEU GLN ILE SER ALA GLY MET PHE VAL THR
 5 10 15
 SER Xaa ASN VAL ARG ASP VAL ILE SER
 20

<210> 62
 <211> 24
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 62
 ASN ASN PRO PHE ARG LEU GLY ILE SER THR GLY MET PHE VAL THR
 5 10 15
 LEU SER ASN VAL ARG ASP VAL ILE ALA
 20

<210> 63

0203.SEQUENCE LISTING

<211> 24

<212> PRT

<213> Viscum album loranthacea

<220>

<221> misc_feature

<400> 63

ASN ASN PHE ILE ARG LEU ALA ILE PHE PHE GLY MET PHE VAL THR
5 10 15
LEU THR ASN VAL ARG ASP VAL ILE ALA
20

<210> 64

<211> 24

<212> PRT

<213> Risin toxin

<220>

<221> misc_feature

<400> 64

ALA SER PRO ILE GLN LEU GLN ARG ARG ASN GLY SER LYS PHE SER
5 10 15
VAL TYR ASP VAL SER ILE LEU ILE PRO
20

<210> 65

<211> 25

<212> PRT

<213> Abrin

<220>

<221> misc_feature

<400> 65

PHE ASN GLN VAL THR LEU THR ASN ILE ARG ASN GLU PRO VAL ILE
5 10 15
VAL ASP SER LEU SER HIS PRO THR VAL ALA
20 25

<210> 66

<211> 16

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 66

SER LEU ALA ILE MET LEU PHE GLU CYS SER GLY ARG PRO PHE SER
5 10 15
SER

<210> 67

<211> 16

<212> PRT

<213> Viscum album coloratum

0203.SEQUENCE LISTING

<220>

<221> misc_feature

<400> 67

SER LEU ALA ILE MET LEU PHE VAL CYS ARG ASP ARG PHE SER SER
5 10 15

<210> 68

<211> 16

<212> PRT

<213> Viscum album loranthacea

<220>

<221> misc_feature

<400> 68

SER LEU ALA ILE MET LEU PHE VAL CYS GLY GLU ARG PHE SER SER
5 10 15

<210> 69

<211> 17

<212> PRT

<213> Risin toxin

<220>

<221> misc_feature

<400> 69

ILE ILE ALA LEU MET VAL TYR ARG CYS ALA PHE PHE PHE SER SER
5 10 15

GLN PHE

<210> 70

<211> 15

<212> PRT

<213> Abrin

<220>

<221> misc_feature

<400> 70

VAL LEU ALA LEU MET LEU PHE VAL CYS ASN PRO PRO PRO PRO ASN
5 10 15

<210> 71

<211> 17

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 71

LEU ASP HIS PRO SER PRO LEU LEU LEU ARG SER VAL VAL ASP ALA
5 10 15

0203.SEQUENCE LISTING

ALA ASN

<210> 72
 <211> 19
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 72
 ASP VAL ARG TYR TRP PRO LEU VAL ILE ARG PRO VAL LEU GLU ASN
 5 10 15
 SER GLY ALA VAL

<210> 73
 <211> 12
 <212> PRT
 <213> Risin toxin

<220>

<221> misc_feature

<400> 73
 SER LEU LEU ILE ARG PRO VAL VAL PRO ASN PHE ASN
 5 10

<210> 74
 <211> 10
 <212> PRT
 <213> Abrin

<220>

<221> misc_feature

<400> 74
 ALA ASN GLN SER PRO LEU LEU ILE ARG SER
 5 10

<210> 75
 <211> 13
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<400> 75
 ASP VAL THR CYS THR ALA SER GLU CYS THR VAL ARG ILE
 5 10

<210> 76
 <211> 14
 <212> PRT
 <213> Viscum album coloratum

<220>

<221> misc_feature

<222> 4, 6

0203.SEQUENCE LISTING

<223> Xaa = any amino acid

<400> 76

ASP VAL THR Xaa THR Xaa SER GLU PRO THR VAL ARG ILE VAL
5 10

<210> 77

<211> 15

<212> PRT

<213> Viscum album coloratum

<220>

<221> misc_feature

<400> 77

ASP ASP VAL THR CYS THR ALA SER GLU PRO THR VAL ARG ILE VAL
5 10 15

<210> 78

<211> 20

<212> PRT

<213> Viscum album loranthacea

<220>

<221> misc_feature

<400> 78

ASP ASP VAL THR SER SER ALA SER GLU PRO THR VAL ARG ILE VAL
5 10 15
GLY ARG ASN GLY MET
20

<210> 79

<211> 19

<212> PRT

<213> Risin toxin

<220>

<221> misc_feature

<400> 79

ALA ASP VAL CYS MET ASP PRO GLU PRO ILE VAL ARG ILE VAL GLY
5 10 15
ARG ASN GLY MET

<210> 80

<211> 20

<212> PRT

<213> Abrin

<220>

<221> misc_feature

<400> 80

SER LYS ILE CYS SER SER ARG TYR GLU PRO THR VAL ARG ILE GLY
5 10 15
GLY ARG ASP GLY MET
20